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Approved For Release 2001/08/13 : CIA-RDP78B04747A001400020016-8

#10047

NPIC/P&DS/P-6-994 1 September 1966

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

SUBJECT:

Micro-Wave Drying

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- from Westover AFB, gave me the following particulars on their request for contractual assistance on electronic micro-wave drying for photographic processors:
 - a. The current capabilities of bulk processing at Westover and in the field are dryer limited (120'/minute processing vs. 52'/minute drying). PSD has the same problem.
 - b. Micro-wave drying has been used outside the photographic area for some time for many drying applications.
 - present time is building micro-wave guides and at the type film dryer for 35mm., B&W at 200'/minute. This prototype should be completed in about one month. The primary reason for developing this dryer at is for color. The speed capability for color was not known by is not our problem. Twenty-feet/minute? more than adequate and believes that the drying speed for paper or film of any type should be around 100'/minute in $9\frac{1}{2}$ " widths.
 - d.

 building processors for reconnaissance film, but

 will supply the micro-wave guide for such applications.
 - has submitted a proposal to Westover for a high-speed paper or film dryer using the micro-wave technique and components. This proposal is for prototype dryer capable of 200'/minute on a "new low gamma" film base and 100'/minute on any B&W film or paper in widths up to $9\frac{1}{2}$ ". Even though color was not a specific requirement in this proposal sees no reason the dryer could not do color prints or paper.

f. has the funds for this development and would like our assistance in getting a sole-source contract with H-F as soon as possible.

DECLASS REVIEW BY NIMA / DoD

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25X1A 25X1A 25X1A	The P&DS current TPPD shows in FY-67 for a study and In discussions with Developmental model of a color film/print dryer. they may want to make a separate dryer for film and one for paper if really wanted something off-the-shelf is
25X1A 25X1A 25X1A	him a study was necessary in spite of the urgency of his requirement. 4. The capabilities and limitations of the electronic micro-wave drying technique should be thoroughly investigated to determine if a study is required. also informed me that several companies the potentials are great as great as and and and and and are companies and are companies.
25X1A	has been building successfully operating equipment for some time and are 1. It is sending a copy of the proposal to P&DS and we regarding contract activities.
25X1A 25X1A	6. suggested that one of our development people go up and have a look at their 35mm. prototype.
25X1A	7. I realize that color, and especially problems of curl, is different in cut sheet or briefing board type prints than a continuous could not be applied. We do have print straighteners, and drying takes the long time period. Speed, of course, is not
•	takes the long time period. Speed, of course, is not our problem, as previously stated. It may be possible to control emulsion layer drying the device is relatively small, we may be able to move the gate over the film or paper instead of moving the material through the gate.

8. I recommend that P&DS delay any procurement activity on a color film/paper dryer study (Project 10047) until this technique is

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Chief, Plans Branch, P&DS, NPIC

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